

Title (en)

Method of detecting radioactive substance.

Title (de)

Verfahren zur Untersuchung der Radioaktivität eines Materials.

Title (fr)

Méthode pour la détection de la substance radioactive.

Publication

EP 0127866 A1 19841212 (EN)

Application

EP 84106077 A 19840528

Priority

- JP 9360083 A 19830527
- JP 10363483 A 19830610
- JP 10363583 A 19830610

Abstract (en)

[origin: CA1226977A] METHOD OF DETECTING RADIOACTIVE SUBSTANCE A method of detecting radioactive substance in a liquid sample in which the liquid sample is supplied continuously or intermittently to a radiation-measuring instrument containing a stimuable phosphor. The said measuring instrument is kept in contact with the liquid sample for a given period of time to cause the instrument to absorb at least a portion of radiation energy emitted by the radioactive substance in said liquid sample. The measuring instrument is irradiated with an electromagnetic wave to release the radiation energy stored in the instrument as stimulated emission. The emission is photoelectrically detected to measure radioactivity of said liquid sample sequentially. The method is particularly useful when employed in conjunction with liquid chromatography.

IPC 1-7

G01T 1/29

IPC 8 full level

G01T 1/29 (2006.01); **G01T 7/04** (2006.01); **G01N 30/84** (2006.01)

CPC (source: EP US)

G01T 1/2012 (2013.01 - EP US); **G01T 1/2014** (2013.01 - EP US); **G01T 7/04** (2013.01 - EP US); **G01N 2030/77** (2013.01 - EP US); **G01N 2030/8417** (2013.01 - EP US)

Citation (search report)

- [Y] EP 0077678 A2 19830427 - FUJI PHOTO FILM CO LTD [JP]
- [Y] US 3569697 A 19710309 - MCCURDY DAVID E
- [Y] US 3935449 A 19760127 - REUNANEN MATTI ANTERO
- [Y] US 3134018 A 19640519 - PETER SCHRANZ
- [A] US 3646345 A 19720229 - PLAKAS CHRIS J, et al
- [A] US 2745968 A 19560515 - LUDEMAN CLIFFORD G
- [A] GB 2087073 A 19820519 - CANCER RESEARCH CAMPAIGN
- [A] HEALTH PHYSICS, vol. 36, no. 6, June 1979, pages 734-738, Oxford, GB; J.W. THOMAS et al.: "Continuous radon monitor"

Cited by

EP2930538A4; US4916320A; EP0127169B1

Designated contracting state (EPC)

BE CH DE FR GB LI NL SE

DOCDB simple family (publication)

EP 0127866 A1 19841212; **EP 0127866 B1 19890524**; CA 1226977 A 19870915; DE 3478350 D1 19890629; FI 842107 A0 19840525; FI 842107 A 19841128; US 4956559 A 19900911

DOCDB simple family (application)

EP 84106077 A 19840528; CA 455306 A 19840528; DE 3478350 T 19840528; FI 842107 A 19840525; US 692587 A 19870127